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NONCOAL MR Form 3 (Revised 1985)

ANNUAL OPERATIONS AND PROGRESS REPORT

1985

(This report must be submitted to the Division by March 31, 1986.)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	Chevron Reso	urces	MINE NAME:	<u>Vernal P</u>	hosphate	<u>Operation</u>
ADDRESS:	Manila Star Vernal, Utah					
PERMIT NUMB	ER AND DATE OF	PERMIT: ACT/C	047/007	·		
REPRESENTAT.	IVE: Bruce G	ilbert				
SECTION(S):	Various	TOWNSHIP(S): 2	& 3 south	_RANGE(S):	21 east	
MINERAL(S)	MINED: Phosph	ate				
Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.						

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit Roads	65.0
Facilities	25.0
Waste Dumps Other	

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	27.4
1976	27.4
1977	27.4
1978	27.4
1979	27.4
1980	27.4
1981	40.0
1982	41.0
1983	41.0
1984	110.0
1985	65.0

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	Area 1 2 3 etc.
Acreage of Area	Panels C, D & E 65.0 AC
Depth of Topsoil Removal (inches)	6 inches
Depth of Topsoil Replacement (inches)*	6 inches
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	52,433 yd ³
Volume Actually Salvaged (yd ³ or ac ft)	52,433 yd ³
Volume Required for Reclamation (yd³ or ac ft)	52,433 yd ³
Surplus or Deficit Volume (yd ³ or ac ft)	None
Storage Status (short- or long-term)	16,500
Storage Location	Panels C, D & E
Area Where Soil Has Been Used (if not stored)	Panels C, D & E
Running Total (all stockpiles) (yd^3 or ac ft)	16,500
Short-term Long-term	14,500 2,000

^{*}Of previously stripped area recently reclaimed.

	lation of all (newly removed) out—of— d illustration on a map.	pit spoil volumes, date o f
Area	Date	Acreage
	s are directly moved into mined out a	areas and immediately
recontoured.		
(e) Tabul	lation of quantity of commodity mined	•
	Commodity	Tonnage
(Mined)(Milled)	Raw Phosphate Ore	1,278,331
(MITTEG)	Raw Phosphate Ore	1,249,912
	ription of any new construction durin on a map, including, but not limited	
1.	Buildings and support facilities. Hydrosizer - Concentrator Building	
	Phosphate Slurry Pipeline	
	Barge MCC Building	<u> </u>
2.	Roads. Access and haulage roads in Panels	D/E area are being
pre	pared in disturbed areas. Refer to o	disturbance map.
3.	Diversion ditches, collector ditche None	s, interceptor ditches, etc.
		
4.	Culverts. None	
5.	Sediment ponds, containment ponds.	

	surface water or ground water, etc.). None
7.	Topsoil stockpiles. Panels C, D & E have a total of 16,500 yd ³
	
(g) Desc	cription of any environmental problem areas with a proposed plan ion and illustration on a map, including, but not limited to:
1.	Pit stability problems. None
2.	Subsidence. None
3.	Accidental water discharge, dam failure, etc. None
4.	Slumping, sliding or erosion. None
5.	Revegetation problem areas. None
6.	Existence and location of unsuitable (toxic) overburden. None

RECLAMATION:

- (a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:
 - 1. Backfilled, graded and contoured areas.

	Area	Acreage
	Panels D, E	12.5
	Panel C Panel A (Camp Canyon)	32.5 129.0
	Tuner A (camp carryon)	129.0
2.	Topsoiled areas.	
	Area	Acreage
	Panels D. E	6.5
	Panel C	32.5
3.	Seeded areas.	
	Area	Acreage
	Panels D, E	6.5
	Panel C	32.5
	Panel A (Camp Canyon)	85.0
4.	Reseeded areas (areas previously s	eeded, then seeded again).
	Area	Acreage
	Panel A below slurry line	5.0

⁽b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

Year

		1975 1976 1977 1978 1979 1980 1981 1982 1983 1984		27.0 13.0 2.0 41.0 23.5 71.0 103.0 138.0 124.0
(c) period,	inclu	uaing:		used during the report
	1.	Average depth of tops 6 inches	oil applied.	
	·			
	2.	Type of seed (species Approved mix in 1983		ding during the report period.
				
				
	3. ,	Date of seeding durin	•	eriod.
Spring _.		April 1 through June Panels A, C &		
Fall _		September 15 through Panels A, C &	November 20	
-		rallers A, C a	<u>U</u>	
_	4.	Seeding procedures us	ed.	
(Hand b	roadca	ast or drilled or any o Drilled in areas wit Hand broadcast in ar	h slopes of 3V	: 1H or less.

Acreage

	5.	Rate of seed application.
Pounds	Per	Acre of Pure Live Seed (PLS) (if varied, please explain) Approximately 26 pounds per acre (PLS) - Drilled Approximately 40 pounds per acre (PLS) - Hand Broadcast
	6.	Type and rate of fertilizer applied. 0-50-0 at approximately 50 pounds per acre
	7.	Type and rate of mulch applied. Native meadow hay from the lower pasture at a rate of approximately 2,000 pounds per acre
	8.	Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.). Watering was limited to Panel "C" directly above the Mine shop. Big gun sprinklers were utilized during June only. Application rate was 250 gpm over 1 acre for approximately 30 minutes per week.
	9.	Revegetation test plot information.
(Cover,	den	sity, productivity, etc.) Surveys to be conducted during summer 1986
	10	. Soil analysis results. None
		cription of results of previous revegetation efforts, including: d be done as applicable.)
	1.	

2.	Types (species) of seed that are not growing successfully. Pending survey of 1986
3.	Areas experiencing problems with weeds and weed types. None
4.	Significant erosional problems. None
5.	Areas of unsuitable overburden on the surface as related to revegetation failure. None
6.	Procedures used or proposed to correct these problems. N/A
-	
7.	Acreage and dates of release (upon inspection by the State) of revegetated areas.
Area	None <u>Date</u> Acreage
8.	Results of soil analysis. N/A

⁽e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of cisturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

			Acres	Cost/Acre
1. 2. 3. 4. 5.	Back Cont Tops Seed A. B. C.	Mulch Fertilizer Seed	174 174 174 39 124 14 174 124	740 740 740 560 51 100 15 55
BON	D INF	FORMATION:		
	Α.	An updated bond estimate should bivision's approval of the Michanges to the MRP have occur	ning and Reclar	mation Plan (MRP) or

A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	Amount	Туре	Date Posted					
Present Bona	\$4.7_Mil	Cash	1/23/86					
Increased disturba	Increased disturbance, if any:							
65 acr	es in the Mine; 25	acrea for tail	ings					
Increased Bond Amount (attached reclamation estimate).								
B. Bond release.								
Acres	Bond Amou	nt Released	<u>Date</u>					
		· -						
								
·····		 						

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- 2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
- 3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
- 5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 - 1. Landfill sites.
 - 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

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